#### DRAFT ENVIRONMENTAL ASSESSMENT

## TRANSFER OF WESTSLOPE CUTTHROAT TROUT FROM CHAMBERLAIN CREEK (BELT CREEK DRAINAGE) TO LANGE CREEK (SUN RIVER DRAINAGE)

## I. Description of proposed action

## A. Description of water body and action.

**Receiving Water:** 

Name: Lange Creek; Location: T21N R10W Sec 11

Water Code: 20-3200

County: Lewis and Clark County

**Donating Water:** 

Name: Chamberlain Creek Location: T14N R8E Sec 25

Water Code: 17-1424

County: Cascade

Montana Fish, Wildlife & Parks (MFWP) propose transferring non-hybridized juvenile and adult westslope cutthroat trout (WCT) (*Oncorhynchus clarkii lewisi*) to currently fishless Lange Creek (Sun River Drainage) from Chamberlain Creek (Belt Drainage). The water that WCT will be introduced into is entirely within Lewis and Clark National Forest. From 150 to 300 fish will be transferred by helicopter over a two to three year period. A minimum of 150 fish is required to reduce potential impacts of inbreeding depression in the new population. Population surveys will be completed in Chamberlain Creek prior to transfers to determine the number of fish to be moved. No more than 10% of the estimated population's fish >= 6 inches and no more than 20% of the population's fish < 6 inches will be moved.

Chamberlain Creek is located in the upper Belt Creek Drainage near Neihart Montana. All of Chamberlain Creek is on Lewis and Clark National Forest. Chamberlain Creek supports a strong (5 miles of stream) remnant population of non-hybridized WCT above a concrete fish barrier constructed in 2002 (Figure 1). Genetic tests (10 fish 1990, 5 1998, 20 fish 1999, 26 fish 2005) indicate the population is non-hybridized despite close proximity to non-native fishes in Jefferson Creek and mainstem Belt Creek. The number of WCT in Chamberlain Creek is large enough to allow transfer of enough juvenile and adult fish without any impact to the genetic integrity of the population.

The entire Sun River upstream of Diversion Dam, which was built on a large barrier waterfall, was historically fishless until stocking efforts in the early 20th century. About four miles upstream from Diversion Dam is the much larger Gibson Dam which forms Gibson Reservoir. Lange Creek, a tributary to Gibson Reservoir in the Sun River Drainage is currently fishless because of a 200 foot waterfall just upstream of its confluence with Gibson Reservoir. Lange Creek has approximately 4 miles of habitable stream above the barrier. All of Lange Creek above the barrier is on Lewis and Clark National Forest. An additional 1.5 miles of habitat exists above an intermediate barrier in the headwaters of Lange Creek (Figure 2). The proposed action would be designed to populate the 4 mile section between the two barriers. Lange Creek was surveyed for presence of fish and habitat fragmentation in 2005. No fish were found, and habitat was deemed good to excellent, with numerous overwintering pools, good channel complexity, and a thriving aquatic invertebrate community. Spawning gravels are adequate though there are relatively high levels of glacially derived silt. Average August temperature was 11.78 C in 2003, well above summer temperatures deemed too low to support WCT populations over most years (Harig and Fausch 2002; Coleman and Fausch 2005). In 2007, several major wildfires burned in the area of Lange Creek. Approximately half of the Lange Creek watershed burned with low intensity, and less than 20% burned at a moderate to severe intensity. The size of the drainage coupled with the predominantly low intensity of the burns will likely not affect the success of a fish transfer to Lange Creek. We predict that the 4 mile reach proposed for the transfer will support more than the 2,500 minimum WCT population size recommended by Hilderbrand and Kershner (2000) for long term persistence (>100 years) and it drains 6.54 miles, which is greater than the 5.6 square mile minimum watershed size recommended as a coarse filter for translocations by Harig and Fausch (2002).

## **B.** Need for Action:

WCT are ranked as S2 (imperiled because of rarity or because of other factors demonstrably making it very vulnerable to extinction throughout its range) by the Natural Heritage Network and the State of Montana. Non-hybridized WCT are thought to occupy about 8% of their historical range in the western United States (Shepard et al. 2003) and less than 2% of their historical range within the Sun River Drainage (Moser 2006). The upper Sun River was likely historically fishless because of a major waterfall at Diversion Dam but is within the overall historic range of WCT. Major threats to WCT include: competition and hybridization with non-native rainbow trout (Leary et al. 1995; Hitt et al. 2003), competition with brook trout (Dunham et al. 2002; Peterson et al 2004), and isolation of remaining non-hybridized populations above barriers in short headwater sections of stream. These small isolated populations are at risk of extinction from catastrophic events (e.g. fire, drought) and may eventually suffer negative consequences of inbreeding (Wang et al. 2002). Translocations and transfers have been commonly used to augment established populations, re-establish historic populations, and in this case create refuge populations (Stockwell and Leberg 2002). Moreover, one of the restoration actions specifically referenced in the WCT Conservation Agreement (MFWP 2007) is translocation of non-hybridized populations into new habitats. In the event of a catastrophic loss of the Chamberlain Creek population, Lange Creek WCT could be used to re-found the population, or vice-versa. Though populations will not be identical because of adaptations to the new environment in Lange Creek, replication should preserve some of the rare allelic diversity that is common in individual populations of WCT (Allendorf and Leary 1988).

## II. Impacts of the proposed action

Please review the attached checklist on pages 8 to 12. The impacts of this action are included in the Environmental Assessment checklist. The following text addresses the impacts.

## A. Impacts to the Physical Environment

## Fish and Wildlife – Section 5c, d, i, of Checklist

The proposed project will involve transfer of WCT from Chamberlain Creek (Belt Drainage) to 4 miles of fishless habitat in Lange Creek. The upper Sun River, including Lange Creek, was likely historically fishless because of a major waterfall at Diversion Dam but is within the overall historic range of WCT. Live fish transfers have successfully established WCT cutthroat populations in the past (Tews et al. 2000, Moser 2006). The MFWP wild fish transfer policy will be followed and WCT will not be transferred until approved by the MFWP Fish Health Committee. Several measures will be taken to reduce potential impacts to the aquatic habitat. These measures include: disease testing of fish in the donor and recipient streams where appropriate, amphibian surveys of the recipient stream, and invertebrate surveys of the recipient stream.

Disease testing: Disease samples will be collected from the donor stream in late winter/early spring of 2008. Results of disease testing and this EA will be submitted to the MFWP Fish Health Committee for approval of the transfer. In general, fish are collected from above fish barriers in remote headwater streams. It is necessarily rare for these populations to have communicable fish diseases. Typically, prior collections for other transfers have been shown to be ELISA positive and PCR negative for *R. salmoninarum* (bacterial kidney disease). Positive ELISA tests for bacterial kidney disease are common in wild fish throughout central Montana and may not preclude transfer of fish.

Genetic Analyses: Thirty five whole fish were collected from Chamberlain Creek from 1990 to 1999 for allozyme analysis. In addition, twenty six fin clips were collected in 2005 for paired interspersed nuclear element analysis. One allele was identified from samples prior to 1999 to be rare genetic variation indistinguishable from YCT. The remainder of alleles were identified as being WCT in origin (Leary 1992, 1999, 2000, 2005). Chamberlain Creek fish are undoubtedly non-hybridized WCT. However, because of the relatively recent construction of the fish barrier and proximity of non-native fishes below the barrier, an additional 50 fin clips will be collected from Chamberlain Creek in early spring of 2008. These fish will be tested for hybridization prior to movement of any WCT. Additionally, WCT will be collected for transfer from the middle reaches of Chamberlain Creek rather than lower reaches to minimize risk of transferring any hybridized fish.

Aquatic Invertebrates and Amphibians: Lange Creek currently supports a population of tailed frogs. Tailed frogs (*Ascaphus montanus*) commonly live in sympatry with salmonid species throughout their range, and are known to coexist with westslope

cutthroat trout in North Badger Creek, Green Gulch, Limestone Creek, Lost Shirt Creek, Moudess Creek and other Rocky Mountain Front streams (USFS surveys). Moreover, tailed frogs have developed non-visual cues to the presence of aquatic predators, including cutthroat trout and brook trout. These cues allow tadpoles to hide from predators in crevices during daytime and come out at night to feed (Feminella and Hawkins 1994). There is little risk that the Lange Creek population is rare or genetically distinct from other populations in Montana. Inland populations of tailed frogs have been shown to exhibit minimal genetic variation likely because of expansion during post glacial retreat followed by contemporary isolation (Nielson et al. 2001). Aquatic invertebrates were collected from above and below the barrier during early summer of 2007. Analysis indicated no rare taxa were present and most species are commonly found in the presence of trout (Dan Gustafson *pers. comm.*). In addition, there were good numbers of a predatory stonefly associated with more successful trout transplants (Dan Gustafson *pers. comm.*).

## **B.** Impacts to the Human Environment

### Land Use - Section 7a of Checklist

The proposed project should have no impact on productivity or profitability of the area. There are no USFS grazing allotments in the area and the only private property (small mining claim, Figure 2) is downstream of the barrier near the confluence of Lange Creek and Gibson Reservoir. Any WCT moving downstream over the barrier will be integrated into the rainbow trout population in Gibson Reservoir and spawning fish could hybridize. Once hybridized, these fish will not be considered part of this new population.

### Aesthetics/Recreation - Section 11c of Checklist

Fishless headwaters streams are not rare, especially along the Rocky Mountain Front. Lange Creek does not harbor any rare species that might be impacted by the transfer. Approximately 1.5 miles of the uppermost headwaters will continue to be fishless because of a natural waterfall barrier (also see section 5). The new fishery will provide an opportunity to fish for native WCT in a remote pristine ecosystem, arguably a positive aesthetic change.

### **III.** Discussion of Reasonable Alternatives

### 1) No Action:

Lange Creek will remain fishless. There is a small risk of a transfer of fish by private individuals in the future. Instances of unauthorized transfers of fish into fishless waters have occurred throughout Montana. Creating a WCT fishery may prevent future transfers of non-native species. Under this alternative, Chamberlain Creek WCT would not be replicated and their unique alleles would not be preserved.

## 2) Proposed Action:

Westslope cutthroat trout will be transferred from Chamberlain Creek (Belt Creek Drainage) to Lange Creek (Sun Drainage). The total miles of stream inhabited by genetically unaltered WCT in the Sun Drainage will increase from 5 to 9 miles, an 80% increase. Chamberlain Creek WCT will be replicated, reducing the risk of extirpation in the event of a catastrophic wildfire, disease, drought, or hybridization with non-native fishes.

### IV. Environmental Assessment Conclusion Section

1) Is an EIS required? No, the action is expected to be minor and beneficial. An EA is the appropriate level of analysis.

#### References

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- Peterson, D.P., K.D. Fausch, and G.C. White. 2004. Population ecology of an invasion: effects of brook trout on native cutthroat trout. Ecological Applications. 14(3):754-772.
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- Tews, A., M. Enk, W. Hill, S. Dalbey, G. Liknes and S. Leathe. 2000. Westslope cutthroat trout (*Oncorhynchus clarki lewisi*) in northcentral Montana: status and restoration strategies. Montana Fish, Wildlife and Parks in collaboration with the Lewis and Clark National Forest, Great Falls, MT.
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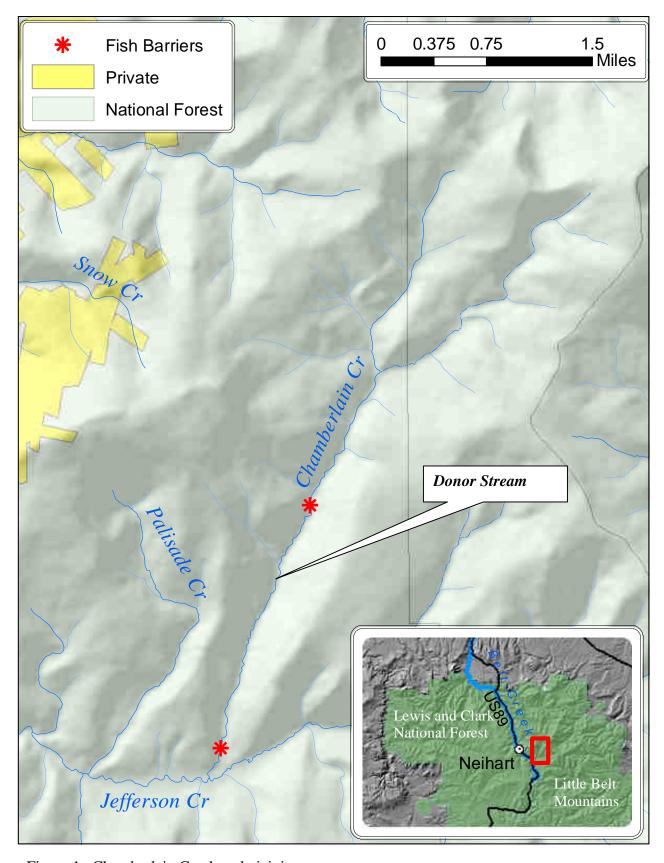


Figure 1. Chamberlain Creek and vicinity.

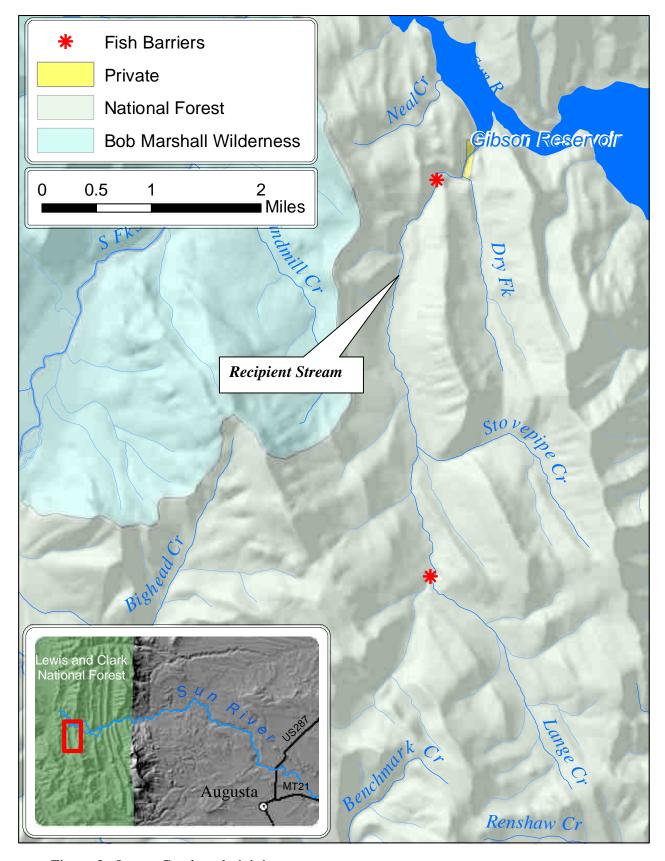


Figure 2. Lange Creek and vicinity.

# Montana Department of Fish, Wildlife and Parks

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## **Environmental Assessment Checklist**

Project: Transfer of live fish from Chamberlain Creek (Belt Creek Drainage) To Lange Creek (Sun

River Drainage) **Division:** Fisheries Division

**Description of Project:** 150 to 300 non-hybridized juvenile or adult westslope cutthroat trout will be transferred by helicopter from Chamberlain Creek (Belt Creek Drainage) to Lange Creek (Sun River

Drainage). The project is expected to be completed in 1 to 3 years.

### A. PHYSICAL ENVIRONMENT

1. LAND RESOURCES	IMPACT Unknown	None	Minor	Potentially Significant	Can Impact Be	Comment Index
Will the proposed action result in:					Mitigated	
Soil instability or changes in geologic substructure?		Х				
b. Disruption, displacement, erosion, compaction, moisture loss, or over-covering of soil which would reduce productivity or fertility?		Х				
c. Destruction, covering or modification of any unique geologic or physical features?		Х				
d. Changes in siltation, deposition or erosion patterns that may modify the channel of a river or stream or the bed or shore of a lake?		Х				
e. Exposure of people or property to earthquakes, landslides, ground failure, or other natural hazard?		Х				
2. WATER  Will the proposed action result in:	IMPACT Unknown	None	Minor	Potentially Significant	Can Impact Be Mitigated	Comment Index
a. Discharge into surface water or any alteration of surface water quality including but not limited to temperature, dissolved oxygen or turbidity?		Х				
<ul> <li>b. Changes in drainage patterns or the rate and amount of surface runoff?</li> </ul>		Х				
c. Alteration of the course or magnitude of floodwater or other flows?		Х				
d. Changes in the amount of surface water in any water body or creation of a new water body?		Х				
e. Exposure of people or property to water related hazards such as flooding?		Х				
f. Changes in the quality of groundwater?		Х				
g. Changes in the quantity of groundwater?		Χ				
h. Increase in risk of contamination of surface or groundwater?		Х				

	1				_	
i. Effects on any existing water right or reservation?		Χ				
		V			1	
j. Effects on other water users as a result of		Х				
any alteration in surface or groundwater						
quality?						
k. Effects on other users as a result of any		Χ				
alteration in surface or groundwater quantity?						
I. Will the project affect a designated		Χ				
floodplain?						
m. Will the project result in any discharge that		Χ				
will affect federal or state water quality						
regulations? (Also see 2a)						
	INADAOT	Mana	NA:	Datautialla	0	0
3. AIR	IMPACT	None	Minor	Potentially	Can	Comment
	Unknown			Significant	Impact Be	Index
Will the proposed action result in:					Mitigated	
<ul> <li>Emission of air pollutants or deterioration of</li> </ul>		Χ				
ambient air quality? (also see 13 (c))						
b. Creation of objectionable odors?		Χ				
c. Alteration of air movement, moisture, or		Χ				
temperature patterns or any change in		^				
climate, either locally or regionally?						
		V			1	
d. Adverse effects on vegetation, including		Х				
crops, due to increased emissions of						
pollutants?						
e. Will the project result in any discharge,		Χ				
which will conflict with federal or state air						
quality regulations?						
4. VEGETATION	IMPACT	None	Minor	Potentially	Can	Comment
	Unknown			Significant	Impact Be	Index
Will the proposed action result in:					Mitigated	
a. Changes in the diversity, productivity or		Х				
abundance of plant species (including trees,		^				
shrubs, grass, crops, and aquatic plants)?						
		V				
b. Alteration of a plant community?		X				
c. Adverse effects on any unique, rare,		Х				
threatened, or endangered species?						
d. Reduction in acreage or productivity of any		Χ				
agricultural land?						
e. Establishment or spread of noxious		Χ				
weeds?						
f. Will the project affect wetlands, or prime		Х				
and unique farmland?		^				
5. FISH/WILDLIFE	IMPACT	Mana	Minor	Detentially	Con	Cammant
5. FISH/WILDLIFE		None	Wilhor	Potentially	Can	Comment
AAPIL (L L C	Unknown			Significant	Impact Be	Index
Will the proposed action result in:					Mitigated	
a. Deterioration of critical fish or wildlife		Х				
habitat?						
b. Changes in the diversity or abundance of		Χ				p. 3-4
game animals or bird species?						
c. Changes in the diversity or abundance of			Х			p. 3-4
non-game species?						
d. Introduction of new species into an area?				Х	<del> </del>	p. 2-4
u. Introduction of new species into an area?				A Beneficial		P. 2-4 Need for
				Denencial		Action
						Section
e. Creation of a barrier to the migration or		Х				
Imayomont at animale?					I	
movement of animals?						

f. Adverse effects on any unique, rare, threatened, or endangered species?	Х			
g. Increase in conditions that stress wildlife populations or limit abundance (including harassment, legal or illegal harvest or other human activity)?	Х			
h. Will the project be performed in any area in which T&E species are present, and will the project affect any T&E species or their habitat? (Also see 5f)	Х			
i. Will the project introduce or export any species not presently or historically occurring in the receiving location? (Also see 5d)		Х		p. 3-4

# **HUMAN ENVIRONMENT**

6. NOISE/ELECTRICAL EFFECTS	IMPACT Unknown	None	Minor	Potentially Significant	Can Impact Be	Comment Index
Will the proposed action result in:				J	Mitigated	
a. Increases in existing noise levels?		Χ				
b. Exposure of people to severe or nuisance		Χ				
noise levels?						
c. Creation of electrostatic or electromagnetic		Х				
effects that could be detrimental to human						
health or property?						
d. Interference with radio or television		Х				
reception and operation?						
7. LAND USE	IMPACT	None	Minor	Potentially	Can	Comment
Will the proposed action recult in	Unknown			Significant	Impact Be Mitigated	Index
Will the proposed action result in:  a. Alteration of or interference with the			X		witigated	n 1
productivity or profitability of the existing land			^			p. 4
use of an area?						
b. Conflict with a designated natural area or		Х				
area of unusual scientific or educational		,				
importance?						
c. Conflict with any existing land use whose		Χ				
presence would constrain or potentially						
prohibit the proposed action?						
d. Adverse effects on or relocation of		Χ				
residences?						
8. RISK/HEALTH HAZARDS	IMPACT	None	Minor	Potentially	Can	Comment
Will the proposed action requit in	Unknown			Significant	Impact Be	Index
Will the proposed action result in:  a. Risk of an explosion or release of		Х			Mitigated	
hazardous substances (including, but not		^				
limited to oil, pesticides, chemicals, or						
radiation) in the event of an accident or other						
forms of disruption?						
b. Affect an existing emergency response or		Χ				
emergency evacuation plan or create a need						
for a new plan?						
c. Creation of any human health hazard or		Χ				
potential hazard?						
d. Will any chemical toxicants be used?		Χ				

9. COMMUNITY IMPACT	IMPACT	None	Minor	Potentially	Can	Comment
Will the proposed action result in:	Unknown			Significant	Impact Be Mitigated	Index
a. Alteration of the location, distribution,		Х			,g	
density, or growth rate of the human		, ,				
population of an area?						
b. Alteration of the social structure of a		Х				
community?		^				
c. Alteration of the level or distribution of		Х				
employment or community or personal		^				
income?						
d. Changes in industrial or commercial		Х				
activity?		^				
e. Increased traffic hazards or effects on		Х				
		^				
existing transportation facilities or patterns of						
movement of people and goods?  10. PUBLIC SERVICES/TAXES/UTILITIES	IMPACT	None	Minor	Detentially	Com	Comment
10. PUBLIC SERVICES/TAXES/UTILITIES	Unknown	None	WIIIO	Potentially Significant	Can Impact Be	Index
Will the proposed action result in:	Olikilowii			Significant	Mitigated	index
		V			wiiligated	
a. Will the proposed action have an effect		Х				
upon or result in a need for new or altered						
governmental services in any of the following						
areas: fire or police protection, schools,						
parks/recreational facilities, roads or other						
public maintenance, water supply, sewer or septic systems, solid waste disposal, health,						
or other governmental services? If any,						
specify:						
b. Will the proposed action have an effect		Х				
upon the local or state tax base and		^				
revenues?						
c. Will the proposed action result in a need for		Х				
new facilities or substantial alterations of any		^				
of the following utilities: electric power, natural						
gas, other fuel supply or distribution systems,						
or communications?						
d. Will the proposed action result in increased		Х				
used of any energy source?		^				
e. Define projected revenue sources		Χ				
, ,		X				
f. Define projected maintenance costs  11. AESTHETICS/RECREATION	IMPACT		Minor	Detentially	Com	Commont
11. AESTHETICS/RECREATION		None	Minor	Potentially	Can	Comment
Will the proposed action result in:	Unknown			Significant	Impact Be	Index
Will the proposed action result in:		V			Mitigated	
a. Alteration of any scenic vista or creation of		Х				
an aesthetically offensive site or effect that is						
open to public view?						
b. Alteration of the aesthetic character of a		Х				
community or neighborhood?						
c. Alteration of the quality or quantity of				X	ĺ	p. 4
recreational/tourism opportunities and				Benefit	ĺ	
settings? (Attach Tourism Report)						
d. Will any designated or proposed wild or		Х				
scenic rivers, trails or wilderness areas be						
impacted? (Also see 11a, 11c)				_ ,		
12. CULTURAL/HISTORICAL RESOURCES	IMPACT	None	Minor	Potentially	Can	Comment
	Unknown			Significant	Impact Be	Index
Will the proposed action result in:					Mitigated	

	-					
<ul> <li>a. Destruction or alteration of any site,</li> </ul>		Χ				
structure or object of prehistoric historic or						
paleontological importance?						
b. Physical change that would affect unique		Х				
cultural values?		, ,				
c. Effects on existing religious or sacred uses		Х				
of a site or area?		^				
d. Will the project affect historic or cultural		Х				
resources?		^				
13. SUMMARY EVALUATION OF	IMPACT	None	Minor	Potentially	Can	Comment
SIGNIFICANCE	Unknown			Significant	Impact Be	Index
					Mitigated	
Will the proposed action, considered as a					g	
whole:						
a. Have impacts that are individually limited,		Х				
but cumulatively considerable? (A project or		, ,				
program may result in impacts on two or more						
separate resources, which create a significant						
effect when considered together or in total.)						
b. Involve potential risks or adverse effects		Х				
which are uncertain but extremely hazardous		^				
if they were to occur?						
_ ·		V				
c. Potentially conflict with the substantive		Х				
requirements of any local, state, or federal						
law, regulation, standard or formal plan?						
d. Establish a precedent or likelihood that		Х				
future actions with significant environmental						
impacts will be proposed?						
e. Generate substantial debate or controversy		Χ				
about the nature of the impacts that would be						
created?						
f. Is the project expected to have organized		Χ				
opposition or generate substantial public						
controversy? (Also see 13e)						
g. List any federal or state permits required.						

- Other groups or agencies contacted or which may have overlapping jurisdiction: <u>United States</u> Forest Service.
- List of Individuals or groups contributing to this EA: Grant Grisak, Fisheries Biologist, MFWP,

  Great Falls, MT; Dave Yerk, Fisheries Biologist, MFWP, Choteau, MT; Michael Enk, Fisheries Biologist, Lewis and Clark National Forest, Great Falls, MT.
- List of all agencies and individuals who have been notified of this proposed transfer: <a href="Public notification via the MFWP Web Site (http://fwp.state.mt.us/publicnotices/">Public notification via the MFWP Web Site (http://fwp.state.mt.us/publicnotices/</a>). The USFS has been involved in drafting the EA.

**Recommendation concerning preparation of EIS:** No EIS Required. Action expected to be minor.

**EA prepared by**: <u>David Moser, Fisheries Biologist, MFWP, Great Falls, MT.</u> **Date:** <u>January 28, 2008.</u>

Comments will be accepted until: July 23, 2008.

Comments should be sent to: <u>David Moser, MFWP, c/o USFS, P.O. Box 869, Great Falls, MT</u> 59403; <u>dmoser@fs.fed.us</u>